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FIG.1

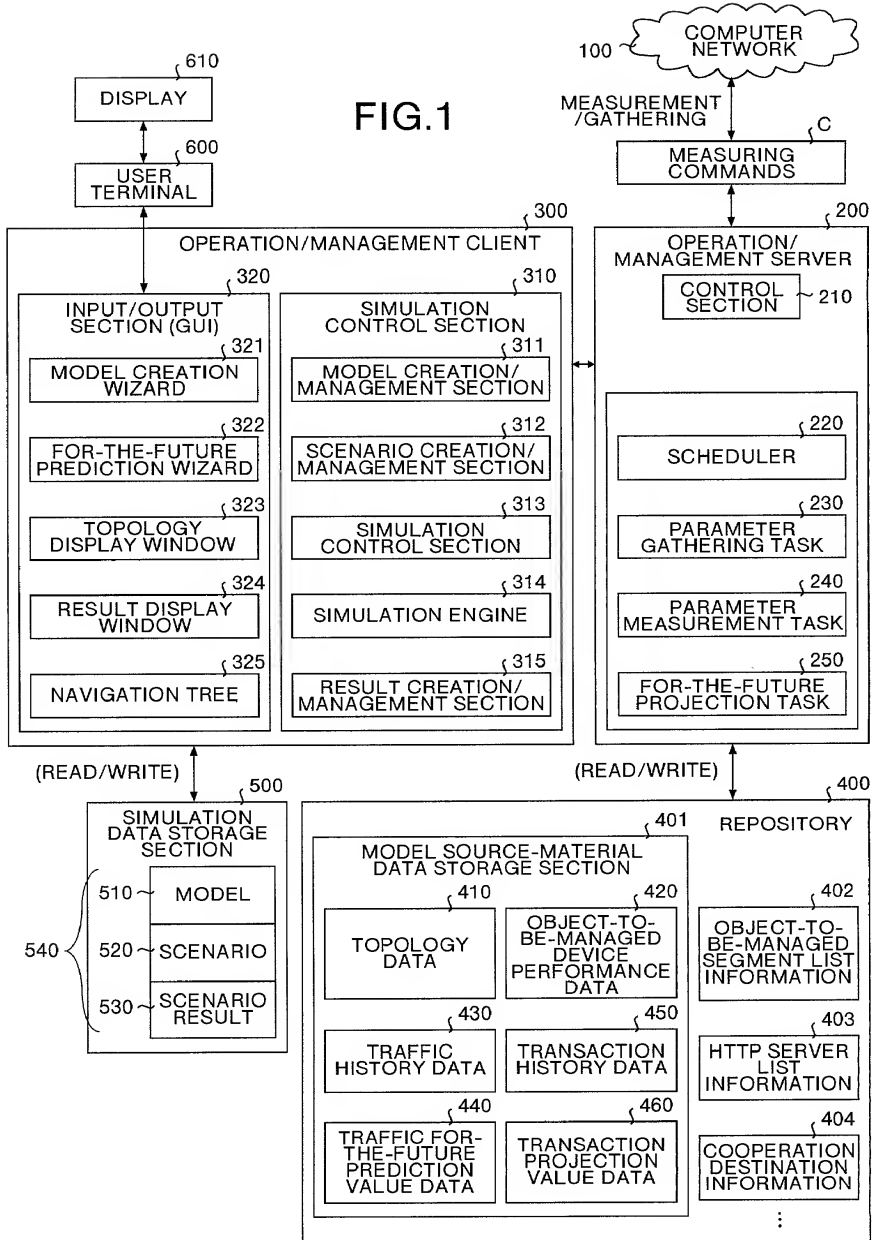


FIG.2

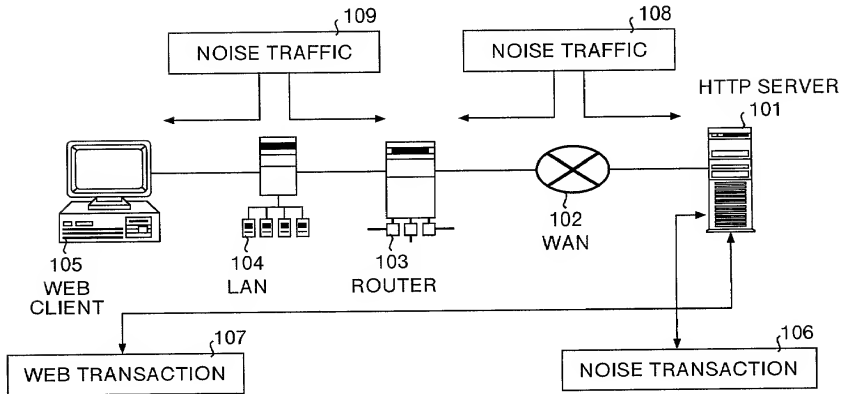


FIG.3

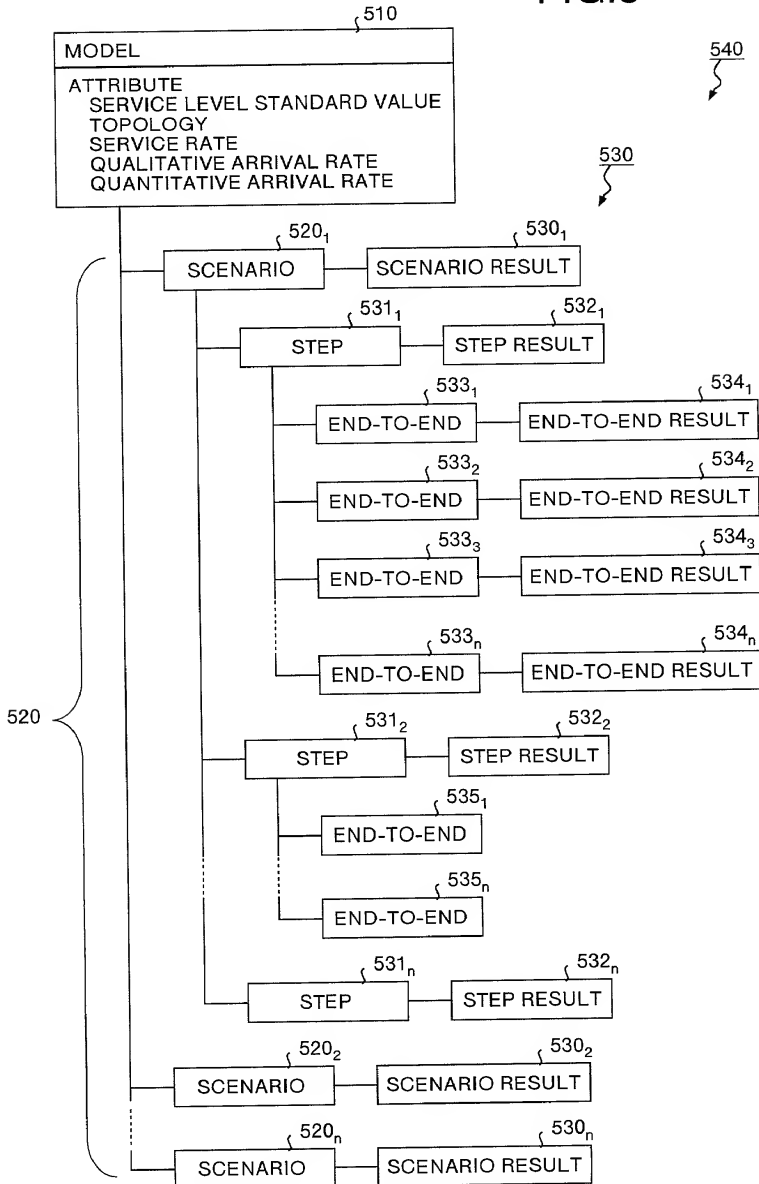


FIG.4

230 SERVICE RATE

	BAND	PROPAGATION DELAY
LAN104	100Mbps	0.8 μ sec/Byte
WAN102	1.5Mbps	0.9 μ sec/Byte
	THROUGH-PUT	
ROUTER 103	0.1m sec/Package	
WEB CLIENT 105	10Mbps	
HTTP SERVER 101	10Mbps	

231 QUANTITATIVE ARRIVAL RATE

	AVERAGE ARRIVAL INTERVAL	AVERAGE PACKET SIZE
NOISE TRAFFIC 108	0.003 sec	429byte
NOISE TRAFFIC 109	0.0015 sec	512byte
	AVERAGE ARRIVAL INTERVAL	AVERAGE TRANSFER SIZE
NOISE TRANSACTION 106	5 sec	200KByte
WEB TRANSACTION 107	30 sec	300KByte

232 QUALITATIVE ARRIVAL RATE

	CLIENT'S MACHINES NUMBER	USED-PERSONS NUMBER
WEB CLIENT 105	ASSUMED AS BEING ONE PIECE (USER DESIGNATES FROM GUI)	ASSUMED AS BEING ONE (USER DESIGNATES FROM GUI)

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FIG.5

410

411

SOURCE SEGMENT	DESTINATION SEGMENT	ROUTE ID
10.10.10.0	10.34.195.0	3
10.10.12.0	10.34.194.0	4

412

ROUTE ID	SEQUENTIAL ORDER	COMPONENT ID	COMPONENT TYPE
3	1	11	ROUTER
3	2	12	LAN
3	3	13	ROUTER

FIG.6

420

421

COMPONENT ID	HOST NAME	THROUGH-PUT	INTERFACES NUMBER	INTERFACE COMPONENT ID
11	bigfoot	0.1m sec/Package	4	5
12	puppet	5m sec/Package	3	6

422

COMPONENT ID	ROUTER COMPONENT ID	IP ADDRESS	MAC ADDRESS	RATE OF INTERFACE
5	11	10.34.191.254	00:00:00:00:00:01	10M bps
5	11	10.34.191.254	00:00:00:00:00:02	100M bps
5	11	10.34.191.254	00:00:00:00:00:03	1G bps
5	11	10.34.191.254	00:00:00:00:00:04	1.5M bps

FIG.7

DATE	TIME	NETWORK	AVERAGE ARRIVAL INTERVAL	AVERAGE PACKET SIZE
2000/04/05	13:00-14:00	10.34.195.254	0.003 sec	513 Kbyte
2000/04/05	14:00-15:00	10.34.195.254	0.002 sec	413 Kbyte
2000/04/05	16:00-17:00	10.34.195.254	0.001 sec	313 Kbyte
2000/04/05	17:00-18:00	10.34.195.254	0.004 sec	213 Kbyte

430

NETWORK	PROJECTION TIME LENGTH	AVERAGE ARRIVAL INTERVAL PROJECTION VALUE IN TERMS OF sec			AVERAGE PACKET SIZE PROJECTION VALUE IN TERMS OF Byte		
		MAXIMUM	AVERAGE	MINIMUM	MAXIMUM	AVERAGE	MINIMUM
10.34.195.254	3 MONTHS	0.008	0.010	0.012	413	313	213
10.34.195.254	6 MONTHS	0.007	0.009	0.011	423	323	223
10.34.195.254	12 MONTHS	0.006	0.008	0.010	433	333	233
10.34.195.254	15 MONTHS	0.005	0.007	0.009	443	343	243
10.34.195.254	18 MONTHS	0.004	0.006	0.008	453	353	253
10.34.195.254	21 MONTHS	0.003	0.005	0.007	463	363	263
10.34.195.254	24 MONTHS	0.002	0.004	0.006	473	373	273
10.34.100.254	3 MONTHS	0.008	0.010	0.005	423	323	223
10.34.100.254	6 MONTHS	0.007	0.009	0.004	433	333	233

440

FIG.8

Σ 450

DATE	TIME	HTTP SERVER	AVERAGE ARRIVAL INTERVAL	AVERAGE TRANSFER SIZE
2000/04/05	13:00-14:00	10.34.195.194	3 sec	2 Kbyte
2000/04/05	14:00-15:00	10.34.195.194	2 sec	3 Kbyte
2000/04/05	16:00-17:00	10.34.195.194	1 sec	4 Kbyte
2000/04/05	17:00-18:00	10.34.195.194	4 sec	1 Kbyte

Σ 440

HTTP SERVER	PROJECTION TIME LENGTH	AVERAGE ARRIVAL INTERVAL PROJECTION VALUE IN TERMS OF sec		AVERAGE TRANSFER SIZE PROJECTION VALUE IN TERMS OF Byte		
		MAXIMUM	AVERAGE	MINIMUM	MAXIMUM	AVERAGE MINIMUM
10.34.195.194	3 MONTHS	3.0	4.0	5.0	4.1	3.1 2.1
10.34.195.194	6 MONTHS	2.8	3.8	4.8	4.2	3.2 2.2
10.34.195.194	12 MONTHS	2.6	3.6	4.6	4.3	3.3 2.3
10.34.195.194	15 MONTHS	2.4	3.4	4.4	4.4	3.4 2.4
10.34.195.194	18 MONTHS	2.2	3.2	4.2	4.5	3.5 2.5
10.34.195.194	21 MONTHS	2.0	3.0	4.0	4.6	3.6 2.6
10.34.195.194	24 MONTHS	1.8	2.8	3.8	4.7	3.7 2.7
10.34.200.100	3 MONTHS	2.0	3.0	4.0	3.3	2.2 1.8
10.34.200.100	6 MONTHS	2.1	3.1	4.1	3.1	2.0 1.6

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FIG.9

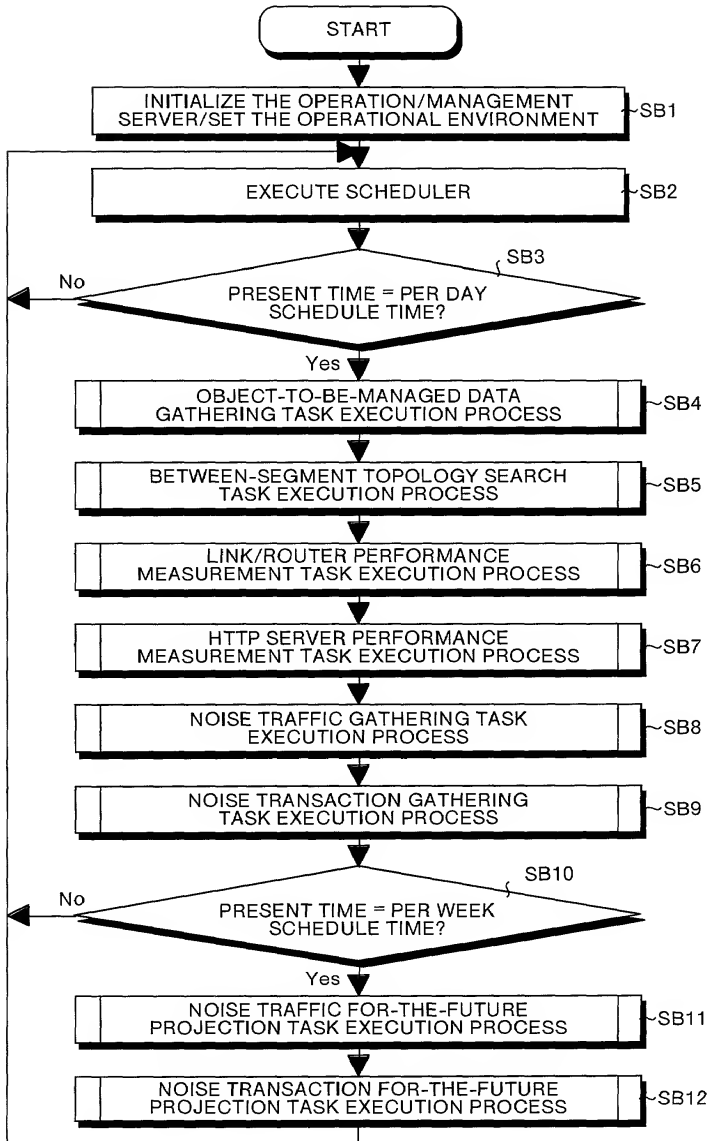


FIG.10

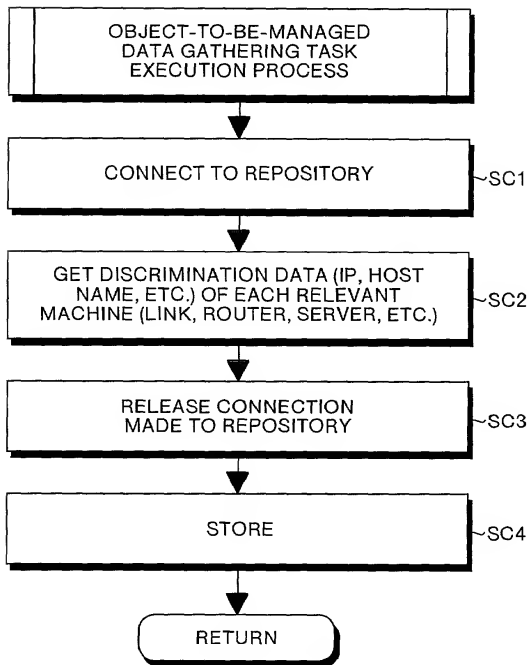


FIG.11

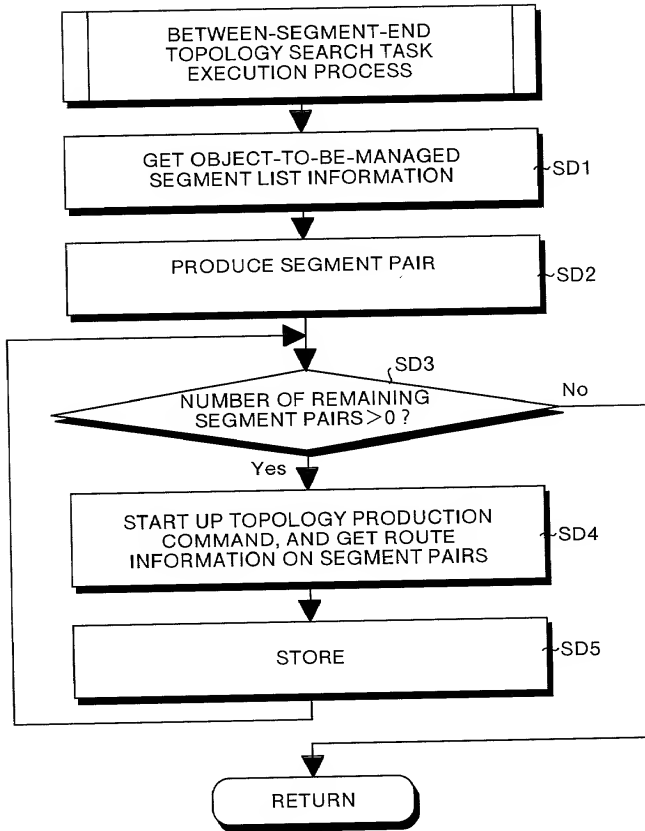
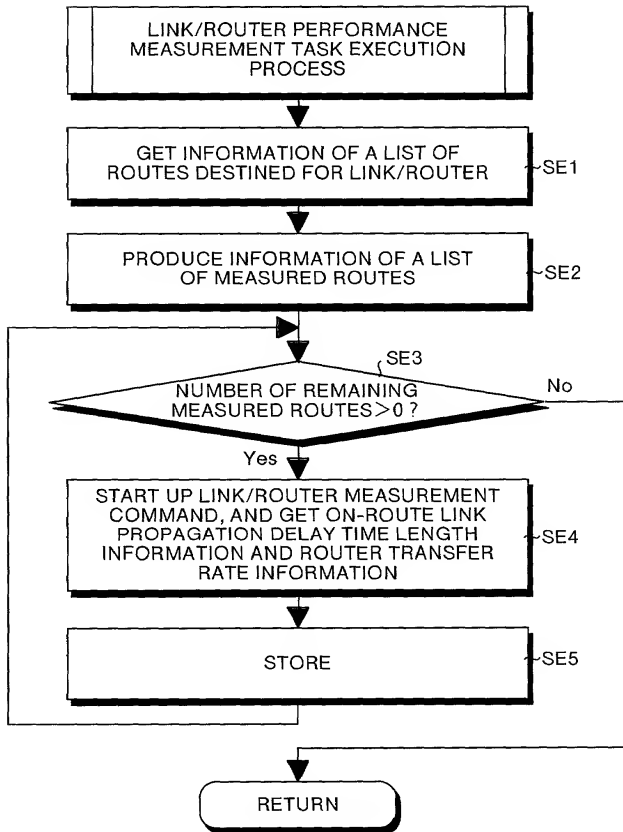


FIG.12



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FIG.13

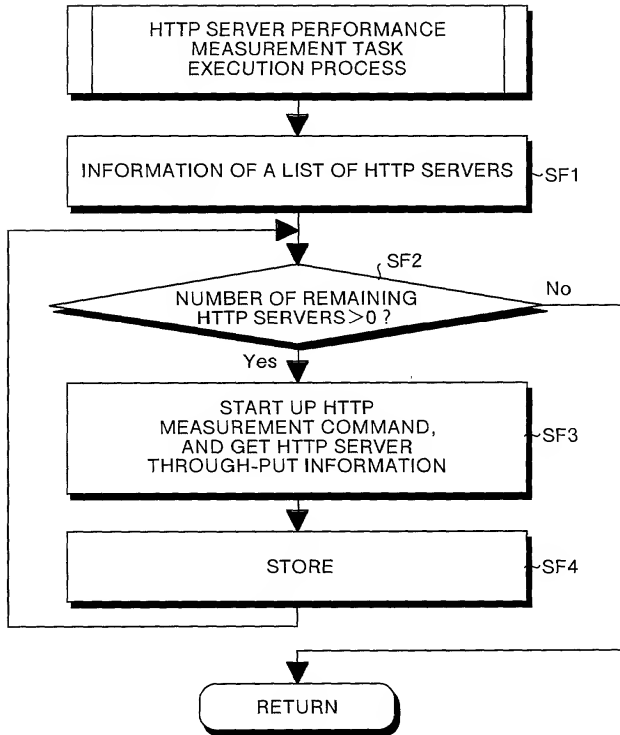


FIG.14

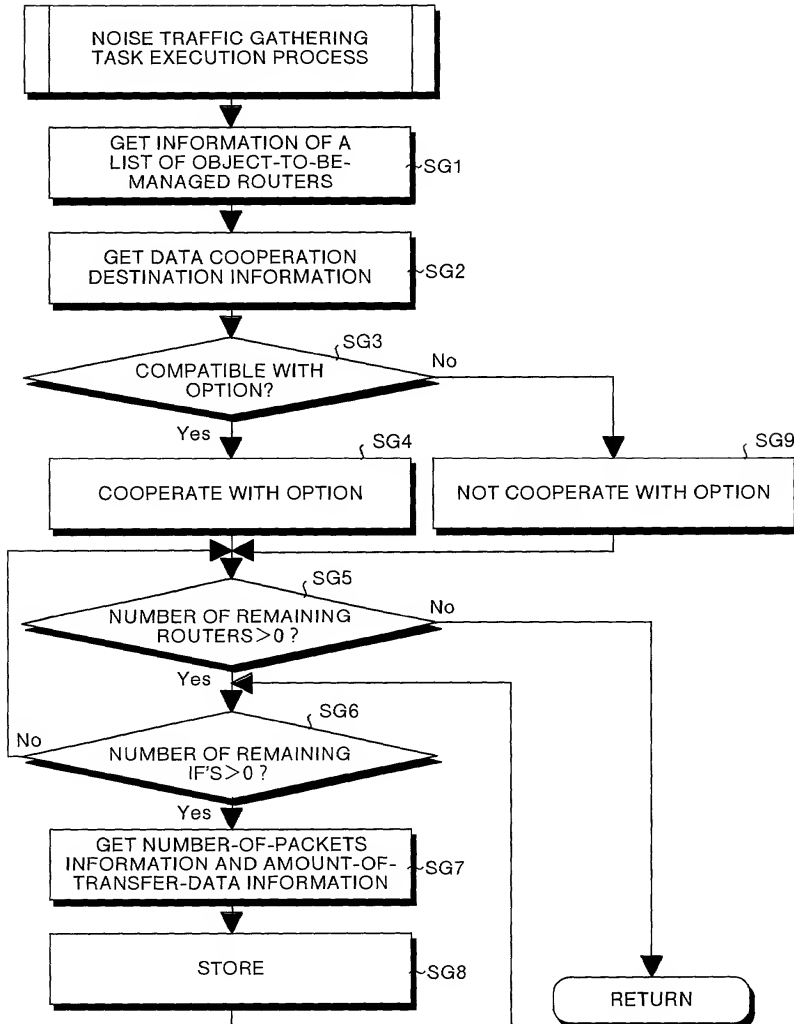


FIG.15

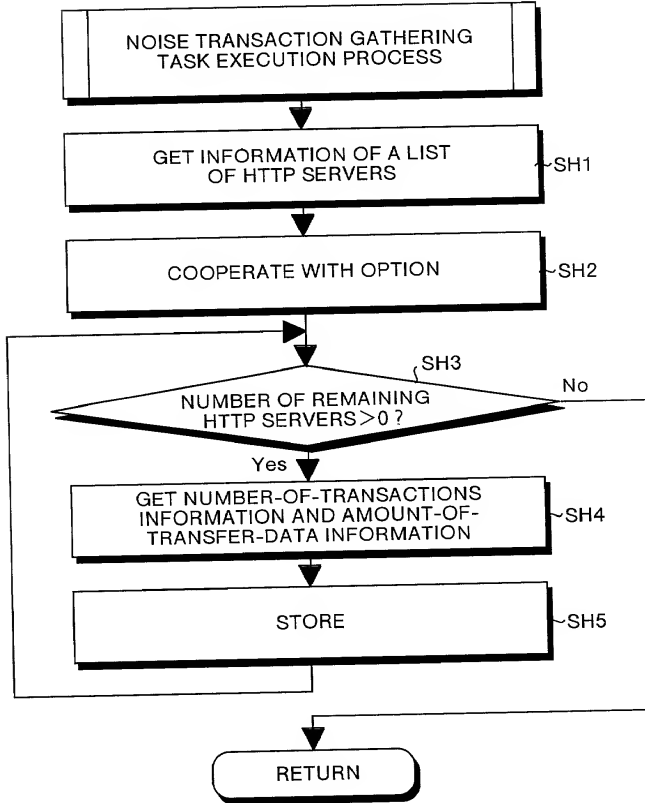


FIG.16

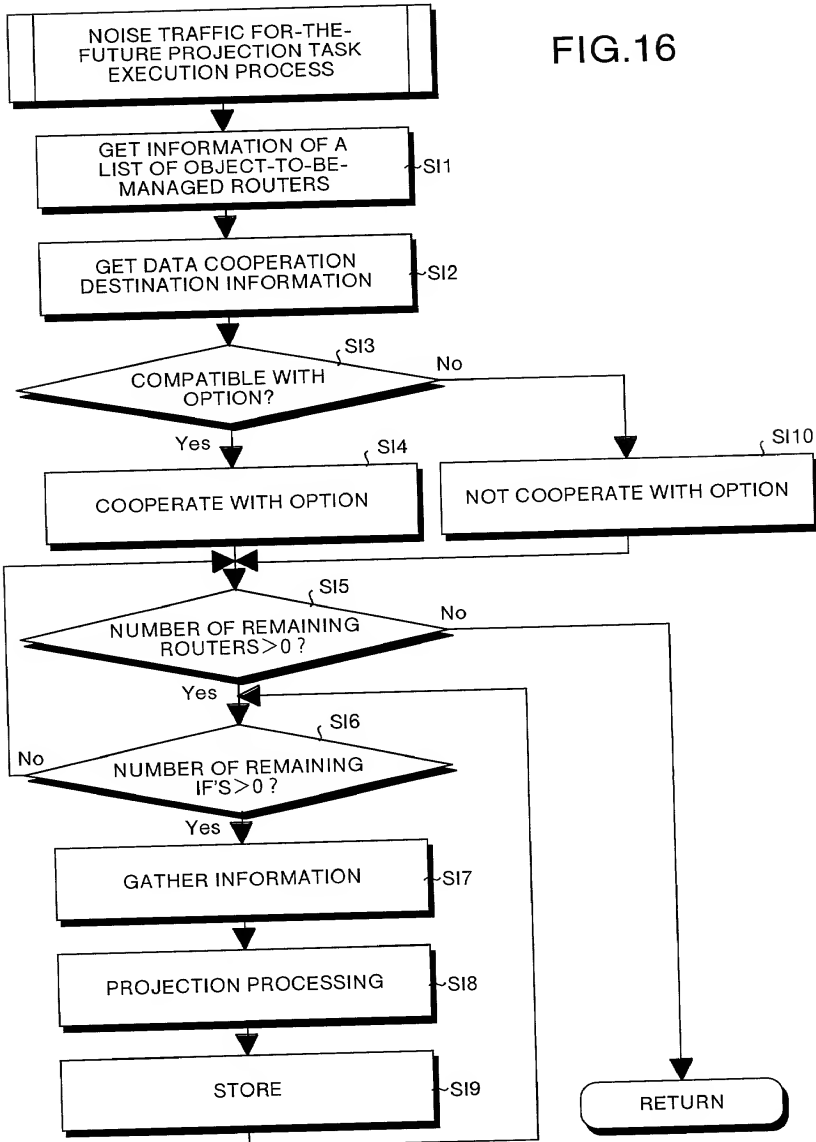
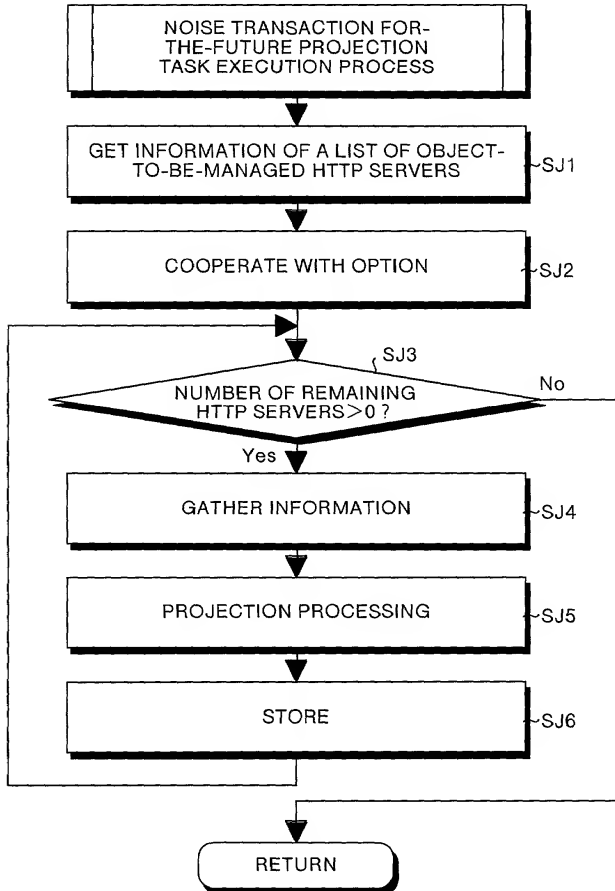


FIG.17



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FIG.18

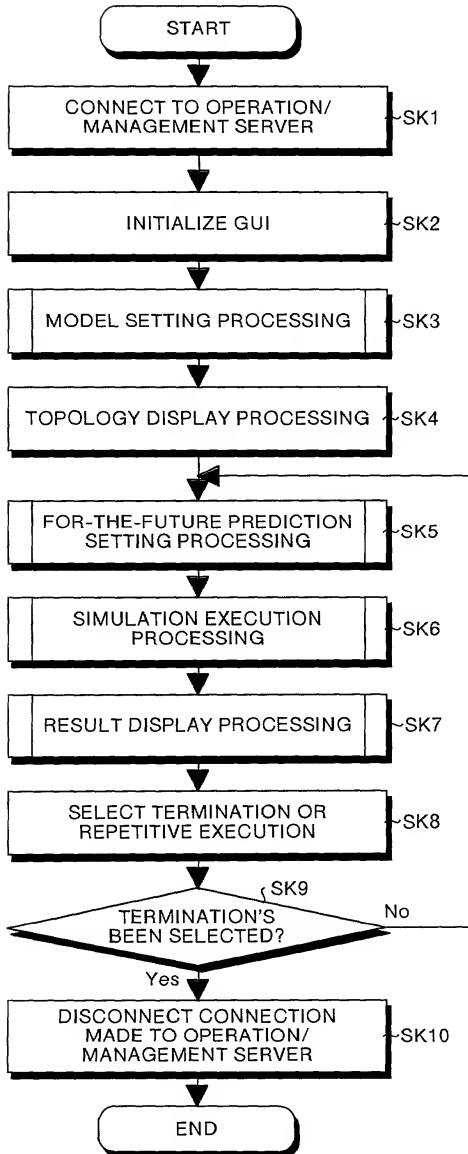
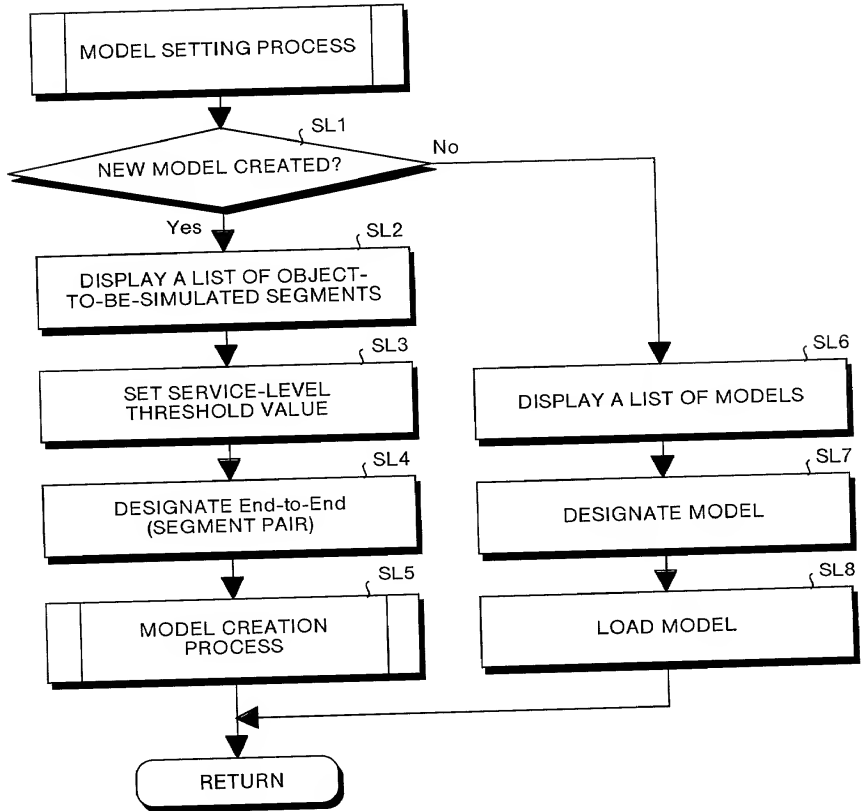


FIG.19



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FIG.20

700

701

PRODUCTION OF NEW PROJECT

PROJECT NAME

PROJECT NAME : default_project

PREDICTION TIME LENGTH

DAY OF THE WEEK

WEEKDAY ▼

702

TIME

13:00-14:00 ▼

703

704

RETURN NEXT CANCEL COMPLETE HELP

FIG.21

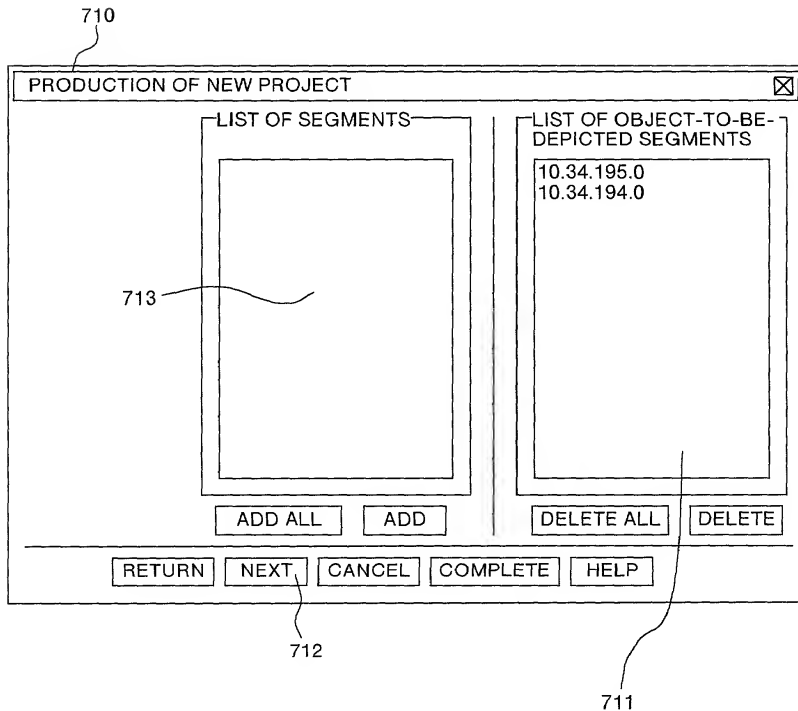


FIG.22

720

PRODUCTION OF NEW PROJECT

RESPONSE STANDARD VALUE

721

THAT 90 % OF A TOTAL NUMBER OF
SAMPLES FALL WITHIN THE RESPONSE
TIME OF 0.126 SECOND IS HANDLED
AS THE STANDARD 722

723

RETURN NEXT CANCEL COMPLETE HELP

FIG.23

730

PRODUCTION OF NEW PROJECT

JOB SERVER
JOB SERVER LIST 731

astro

CLIENT
CLIENT'S SIDE SEGMENT LIST

10.34.195.0
10.34.194.0 732

CLIENT'S NAME 0.34.195.0_client_astro

THAT 90 733 % OF A TOTAL NUMBER OF SAMPLES FALL WITHIN
THE RESPONSE TIME OF 0.126 734 SECOND IS HANDLED AS THE
STANDARD

735 10.34.194.0:astro-10.34.195.0:10.34.195.0_client_astro-0.126sec

ADD 736

DELETE 737

EDIT 738

RETURN NEXT CANCEL COMPLETE HELP

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FIG.24

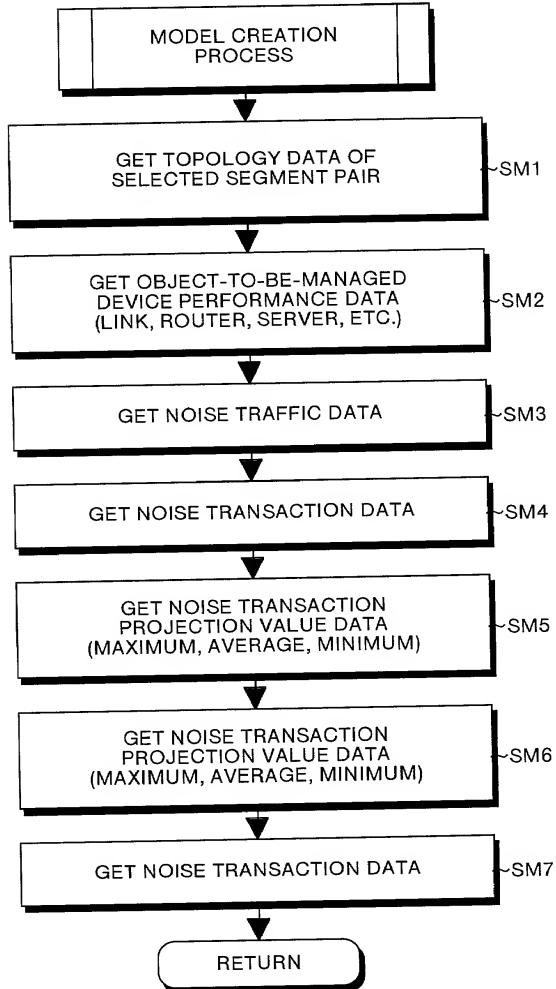


FIG.25

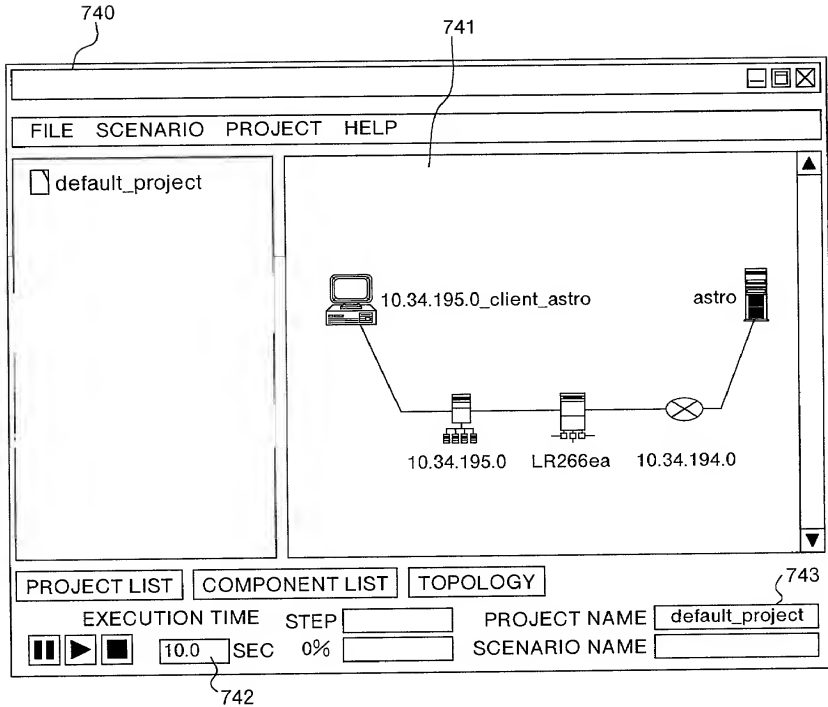
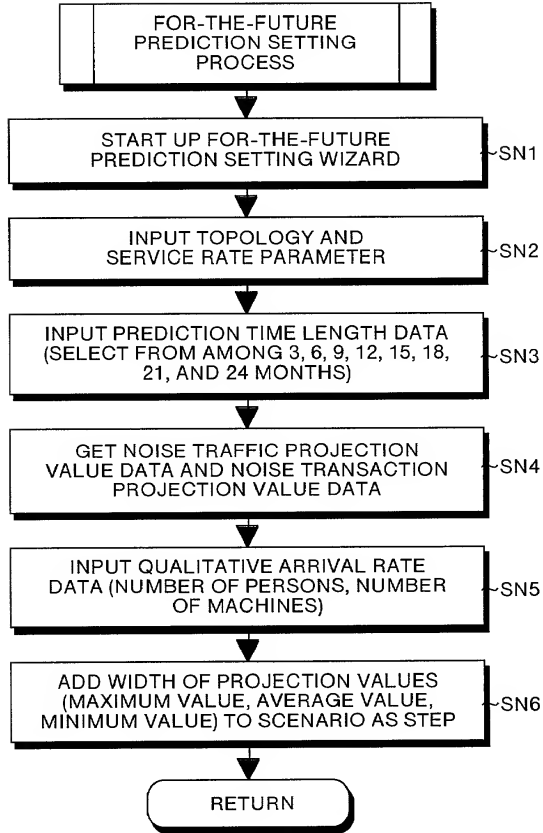


FIG.26



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FIG.27

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754

PRODUCTION OF NEW SCENARIO

SCENARIO NAME

SCENARIO NAME : default_scenario

NOISE AUTO PREDICTION

NOISE AUTO PREDICTION MODE ☒ ON ☐ OFF

PREDICTION TIME LENGTH

3 MONTHS ▼

RETURN NEXT CANCEL COMPLETE HELP

FIG.28

760

PRODUCTION OF NEW SCENARIO

☒

NOISE TRAFFIC

761

SEGMENT NAME	ROUTER NAME	OPTIMISTIC -VIEW VALUE	PROJECTION VALUE	PESSIMISTIC -VIEW VALUE	CORRELATION COEFFICIENT	DAYS NUMBER
10.34.1...	LR266ea	0.0	100.0	200.0	0.5	100
10.34.1...	LR266ea	0.0	100.0	200.0	0.5	200

NOISE TRANSACTION

762

SEGMENT NAME	SERVER NAME	OPTIMISTIC -VIEW VALUE	PROJECTION VALUE	PESSIMISTIC -VIEW VALUE	CORRELATION COEFFICIENT	DAYS NUMBER
10.34.1...	astro	-100.0	-80.0	-60.0	-0.5	100

RETURN

NEXT

CANCEL

COMPLETE

HELP

763

FIG.29

770

PRODUCTION OF NEW SCENARIO

☒

☒ SET PER SERVER ☐ SET PER SERVER CLIENT 771

astro

772

773 { ☒ SINGLE PERSON USES A SINGLE MACHINE CLIENT
☐ PLURALITY OF PERSONS USE A SINGLE MACHINE CLIENT

774 NUMBER OF MACHINE CLIENTS : 1

775 NUMBER OF PERSONS : 1

776 NUMBER OF ACCESSSES: 10

777 IN CASE OF cgi: 0.0

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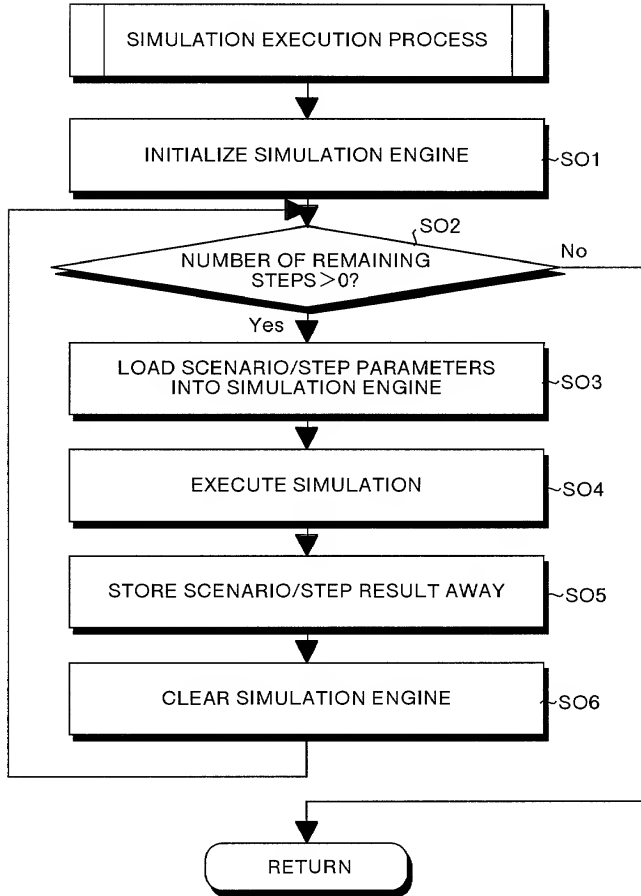
1992

1993

1994

1995

FIG.30



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FIG.31

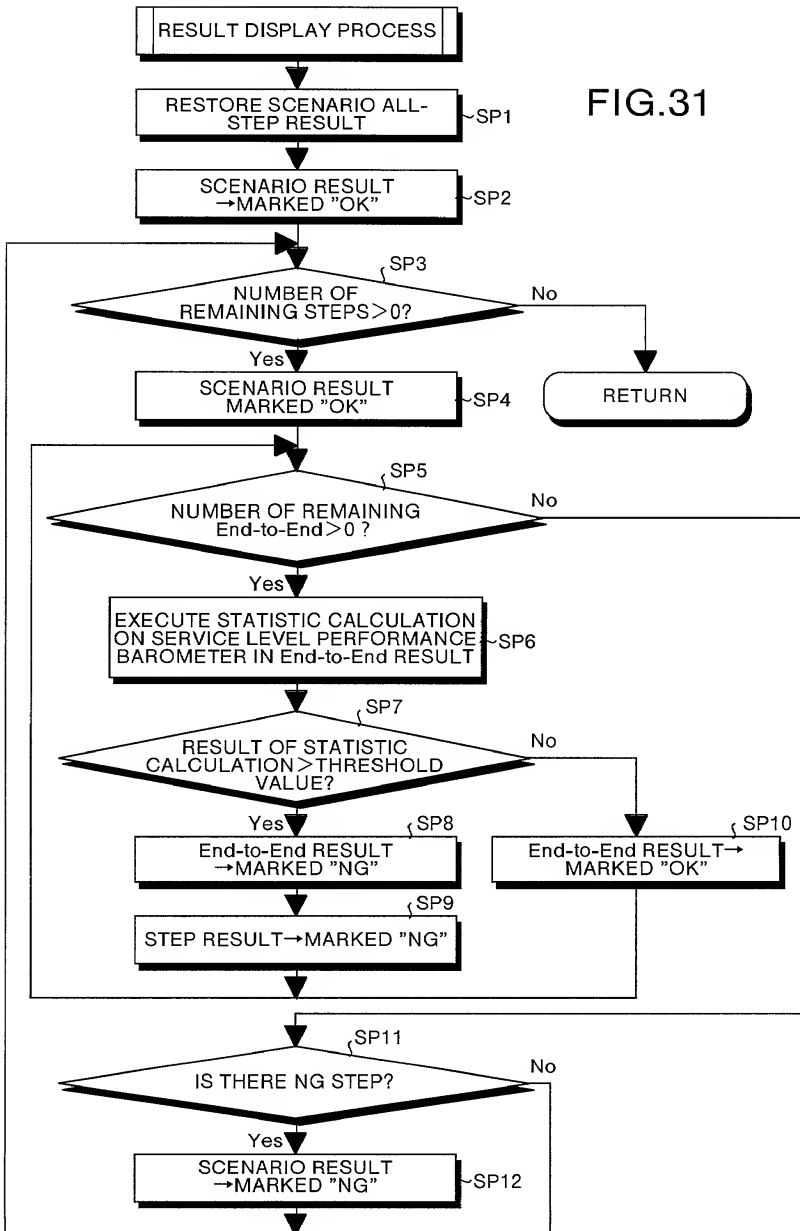


FIG.32

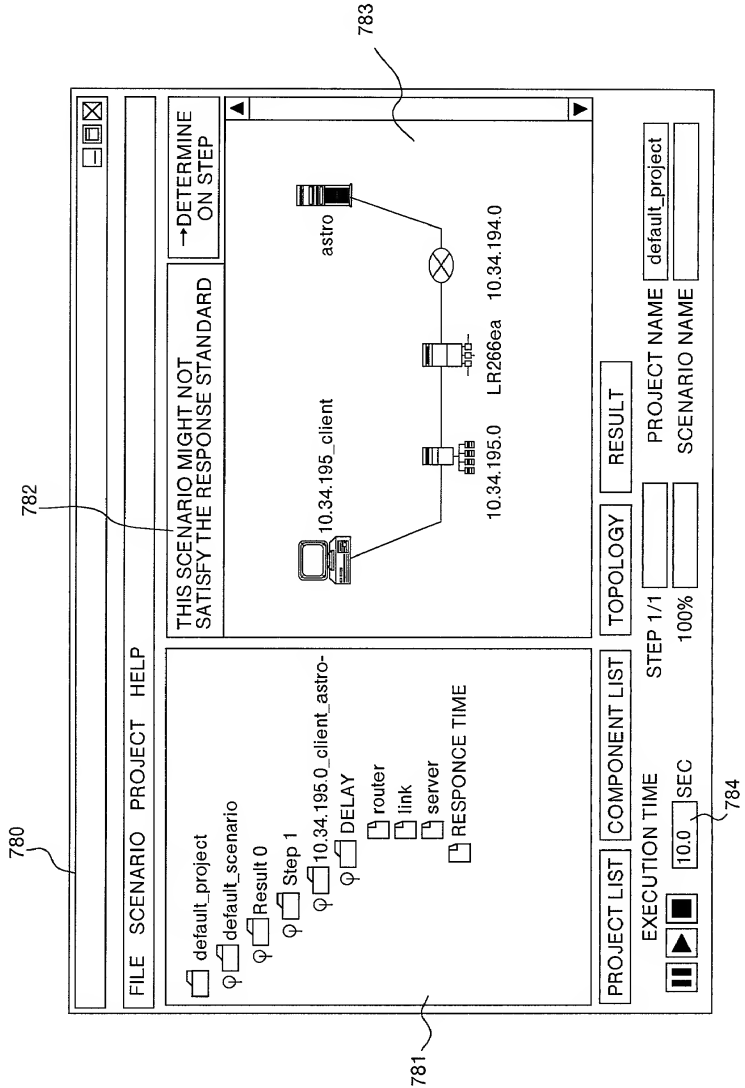


FIG.33

790

791

FILE
SCENARIO
PROJECT
HELP

default_project

default_scenario

Result 0

Step 1

10.34.195.0_client_astro-

DELAY

router

link

server

RESPONSE TIME

DETERMINE ON STEP			
SEQUENTIAL ORDER	NOISE TRAFFIC	CALCULATION TIME LENGTH	DETERMINATION
1		auto map 10.0	NG

TO END-TO-END DETERMINATION
NUMBER OF NG'S 1/1

PROJECT LIST COMPONENT LIST

EXECUTION TIME

STEP 1/1

100%

10.0 SEC

PROJECT NAME default_project

SCENARIO NAME default_scenario

TOPOLOGY

RESULT

793

792

FIG.34

800
801

FILE
SCENARIO
PROJECT
HELP

default_project
default_scenario

Result 0
Step 1

10.34,195.0_client_astro-
DELAY

router
link

server
RESPONSE TIME

END TO END DETERMINATION

SEQUENTIAL ORDER	JOB NAME	DETERMINATION	MAX-IMUM R	AVERAGE R	MINIMUM R	PERCENTILE
1	10.34	NG	0.130	0.126	0.124	0.0

delay
 TO GRAPH
 803

rTime
 TO GRAPH
 804

←TO PREVIOUS IMAGE SCREEN

PROJECT LIST
COMPONENT LIST

EXECUTION TIME
STEP 1/1

100%
100%

TOPOLOGY
RESULT

PROJECT NAME
default_project

SCENARIO NAME
default_scenario

FIG.35

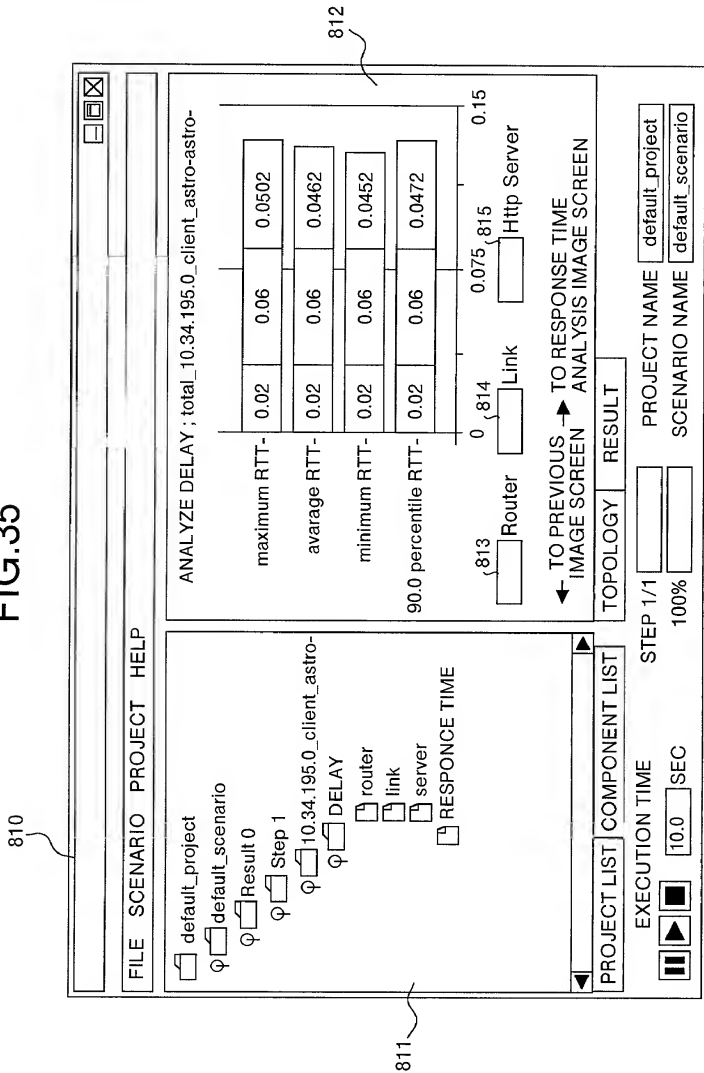
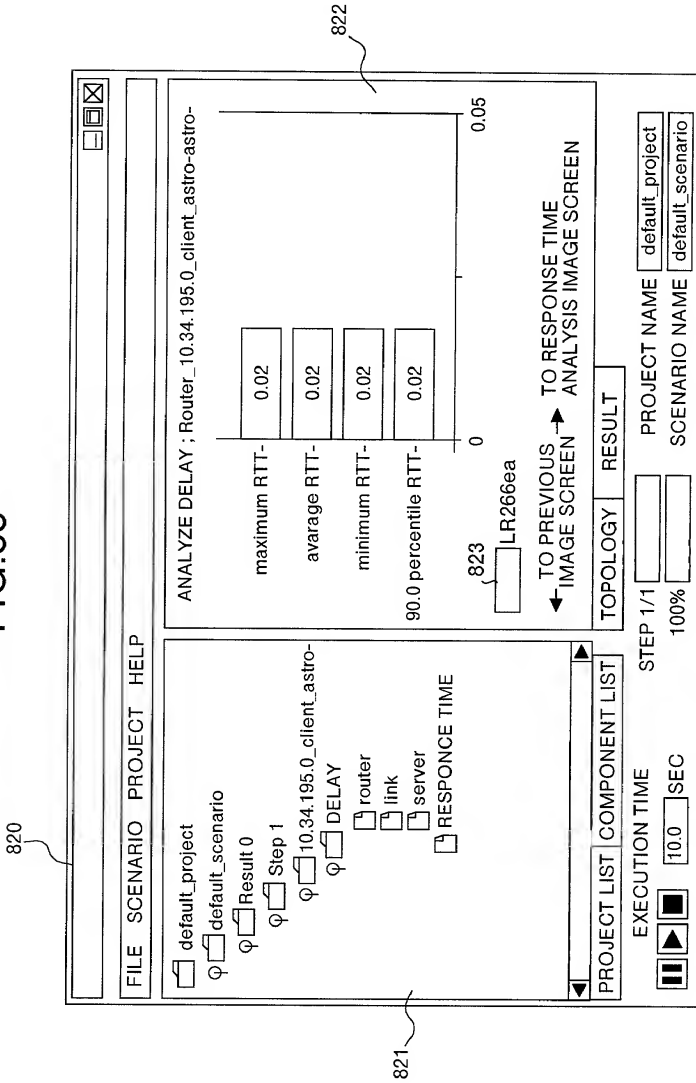


FIG.36



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FIG.37

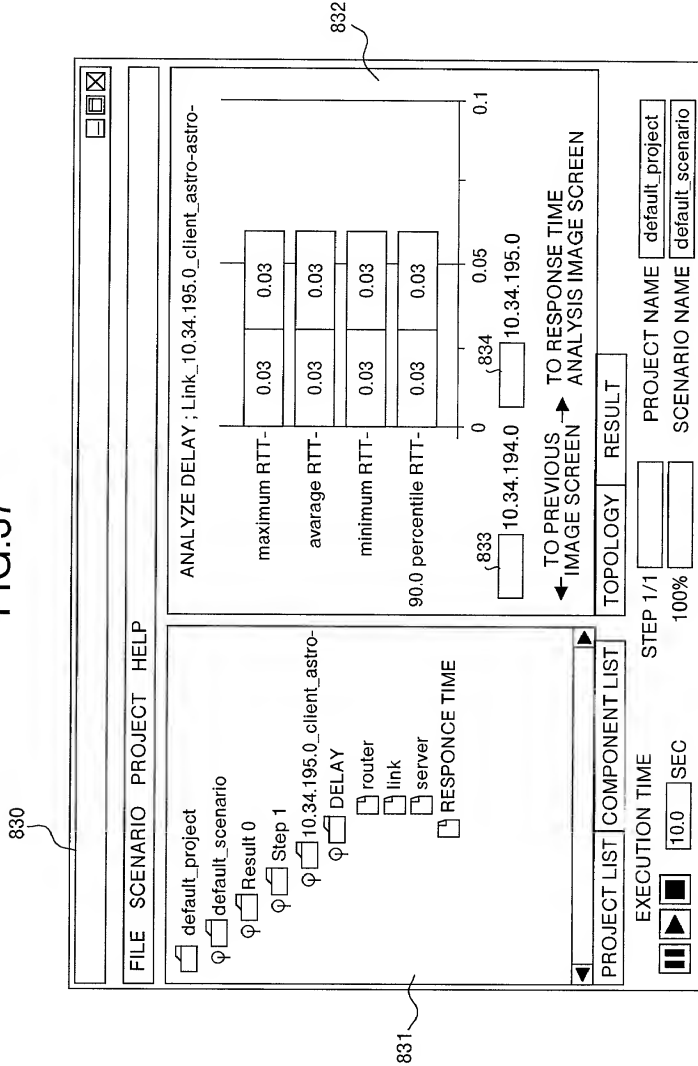


FIG.38

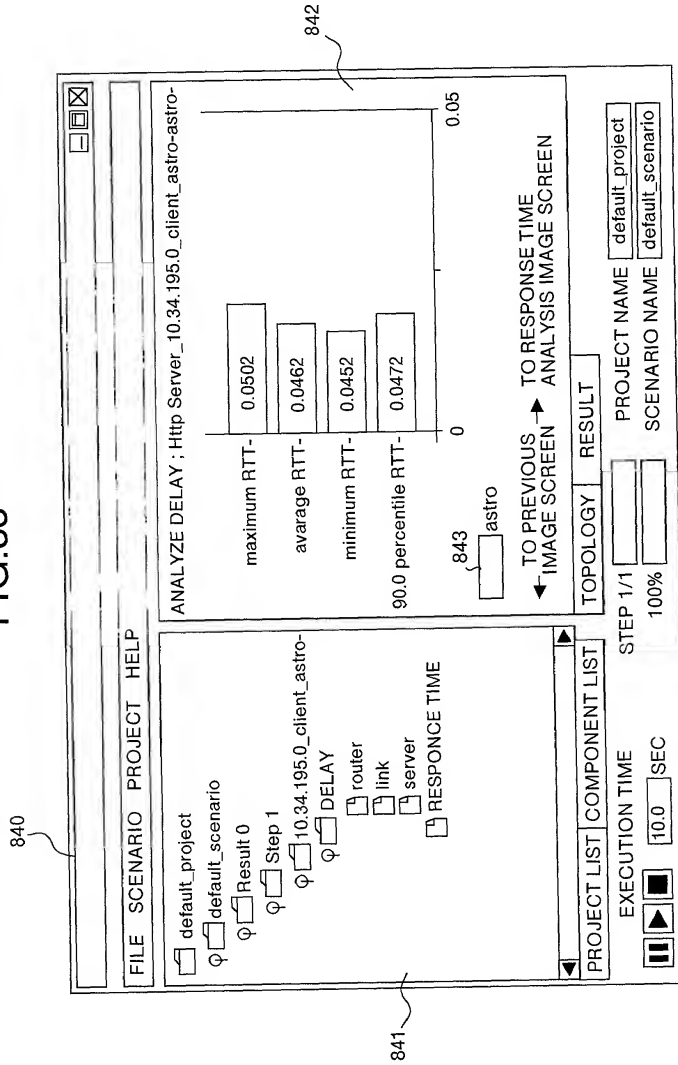


FIG.39

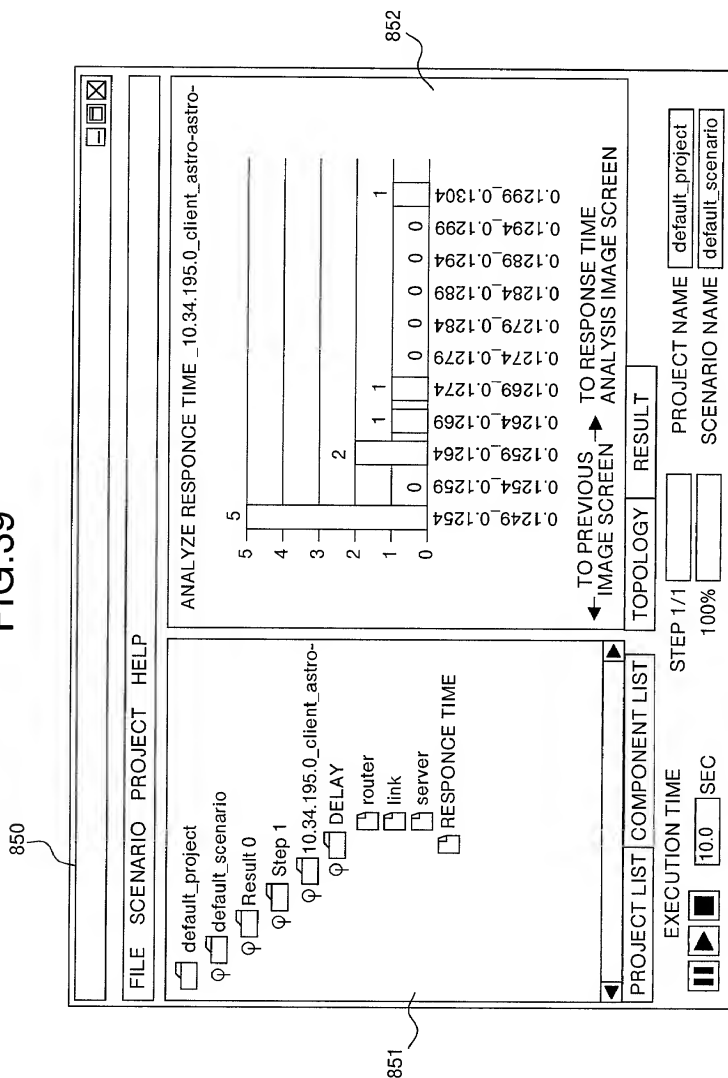


FIG.40

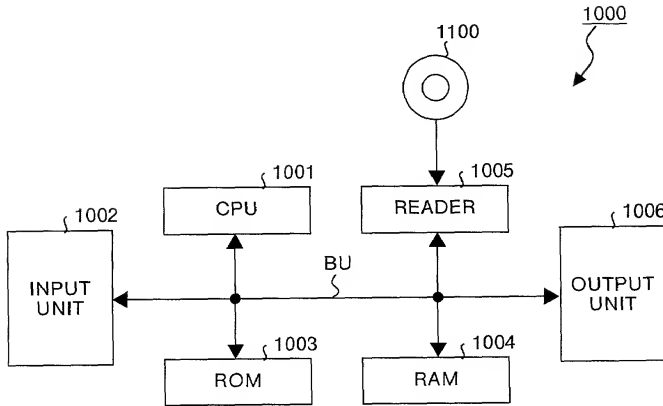


FIG.42

